



Volvo Construction Equipment

EC220E

VOLVO EXCAVATORS 20.6-25.1 t / 45,350 - 55,360 lb 173 hp



A passion for performance.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for customers around the globe. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.

A strong, dedicated, capable dealer network.

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.

The strength of our dealer network is enhanced with extensive individualized product and product support training at our state-of-the-art Technical Training Center in Asheville and through hands-on training. At our nearby 80-acre Product Demonstration Center, visitors operate equipment from our entire product line under a variety of simulated working conditions. Both facilities are in year-round use by our dealers and customers – more than 2,000 visit each year.

Building the best starts right here.

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq. ft. expansion – now covers 570,000 sq. ft. on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.





Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

Best in Class Efficiency.

The EC220E builds on its efficiency reputation from the D-Series by ensuring all components work together and complement each other. The enhancements deliver the best in class fuel efficiency while not compromising on power – reducing emissions and consumption, while increasing productivity.

Volvo engine

Featuring proven advanced technology, and built on decades of experience, Volvo's robust D6 Tier 4 Final engine boasts more power - while reducing both fuel consumption and emissions to deliver superior quality, reliability and durability.



Boom float function

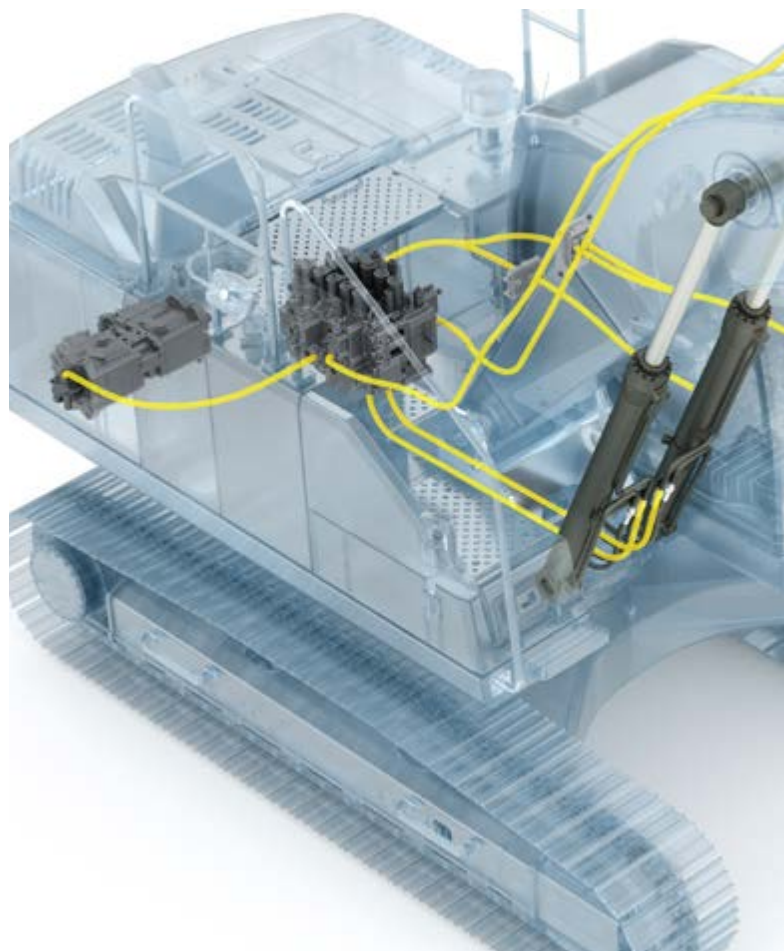
With the boom float function, the pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.

Auto engine shutdown (Optional)

To reduce fuel consumption, the engine will automatically switch off when the machine is inactive for a pre-set amount of time (five minutes is the default setting).

Main Control Valve and Software

The valve is compatible with software in the machine to aid controllability, by providing smooth and easy operation. In addition to increased swing force, the EC220E also comes with a boom swing priority valve; this enhances controllability of the swing and boom operation – making it ideal for loading trucks.



Increased power

The increased pump input power creates a highly responsive operation resulting in greater productivity and faster cycle time.



Optimized hydraulics system

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with D6 Tier 4 Final engine to match the engine power, reduce power loss and improve controllability and response time.



Human Machine Interface (HMI)

All machine interfaces – including joysticks, keypad, panel and larger LCD monitor – are ergonomically designed for optimum control and efficiency, resulting in increased productivity and workplace wellbeing. The number of switches have been simplified and climate control integrated into the keypad for easy adjustments.

First Choice for Comfort.

The cab design puts the operator in the drivers' seat to control personal specifications - from climate control, to short-cut functions on the joystick. The spacious cab allows the operator to move comfortably, to create a working environment that naturally promotes increased productivity.

Side view camera

As well as the rear view camera, there is now a side view camera option to cover the visual blind spot. Both views are displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.



Short-cut key

For added convenience, functions such as windshield wipers, cameras, or audio mute function can all be assigned a short-cut button on the joystick. This allows the operator to select a function during the application without disruption.



Bluetooth®

To aid operator convenience and support better productivity, you can now connect a Bluetooth device to the machine enabling the hands-free function.



Seat belt warning alarm

If the seat belt is not buckled when the ignition key is turned, an alarm is triggered with a continuous visual alert. This emphasizes our priority for operator safety.

Building on Foundations of Trust and Quality.

Quality is one of Volvo's core values and it goes hand-in-hand with reliability and durability. The EC220E pays particular attention to having all the components working at a high level of capacity but also being built to stand the test of time – providing the customer and operator with peace of mind.

ROPS

The cab features ROPS – this reinforced steel structure ensures the operator is protected in the unlikely event of the machine rolling over, while it also meets the ISO standards for safety.



Boom and Arm

The robust design includes internal plates positioned to support pressure points during the range of applications. This helps disperse the stress from high-pressure areas of the boom and arm, to ensure maximum productivity time after time, during the most demanding applications.



Lower frame

The intelligently designed X-shape lower frame enables even weight distribution increasing stability and durability - preventing damage from rock and debris.



Heavy-duty Undercarriage

The EC220E heavy-duty undercarriage creates excellent tractive force for improved durability and reliability in demanding terrain. A robust undercarriage increases the service life of the machine.



Built to last

Working in tough conditions means every component matters - this is why Volvo pays extra attention to each detail during the manufacturing and product design processes. Silicone caulking is used to prevent rust, waterproof harnesses and connections are installed - as well as heavy-duty door hinges and bolted-on protection for the frame-work lights.



Ultimate tool carrier

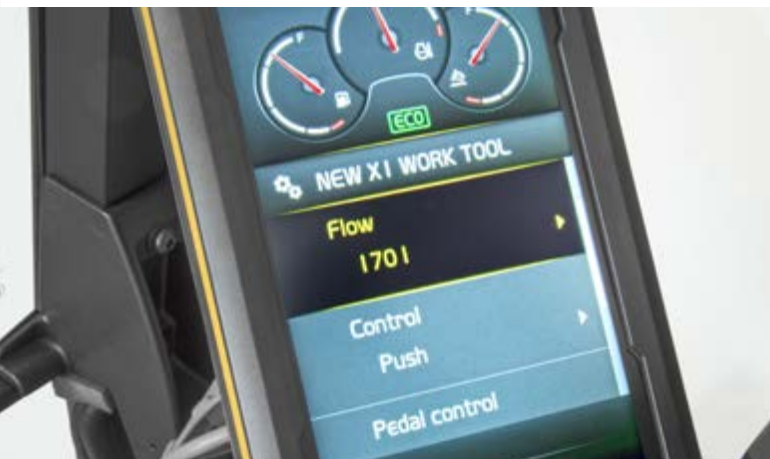
The machine can be adjusted to take a wide variety of hydraulic lines, which are factory fitted with breaker and shear piping (X1), as well as rotator piping (X3). State-of-the-art auxiliary lines provide the correct flow and pressure for special attachments such as mowers and grinders, shears, crushers and tilt rotators among other attachments. You can choose between the one or two pump flow to maximize profits and productivity.

Customer Choice.

Creating a machine that can adapt to a number of attachments increases productivity and reduces cycle time. The EC220E not only manages to achieve this versatility but it is a machine that incorporates the same high quality performance across its entire menu of applications – meaning the operator is safe in the knowledge that with Volvo there is no better option.

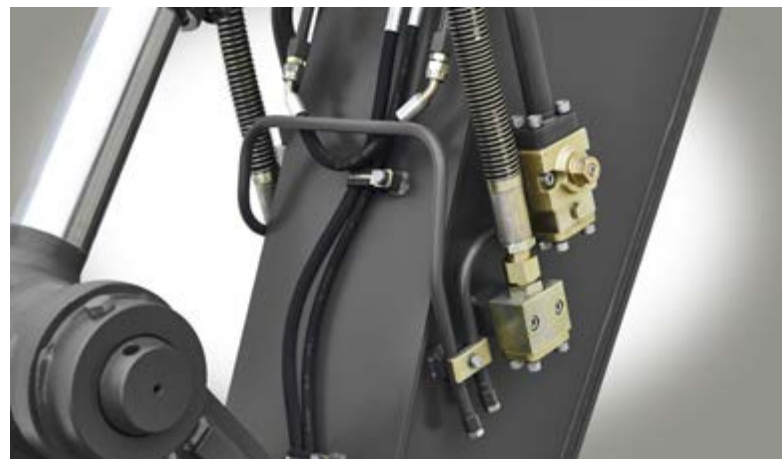
Attachment Management System

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab, which ensures the use of various attachments for increased versatility.



Extra piping

An additional piping solution is available on the breaker and shear piping (X1), accommodating the use of tilt/rotator attachments.



Pedal

The pedal for the breaker and shear piping (X1) control is electric to offer precise control to allow the operator to use a wide variety of attachments.



Response mode

The attachment response sensitivity can be adjusted using the keypad. This allows the operator to tailor machine response for maximum impact in different environments.

Proactive Maintenance Solutions.

Maintaining your machine will ensure you get the maximum lifetime and productivity. This is why Volvo have made this process easy – developing it to be fast, regular and safe.

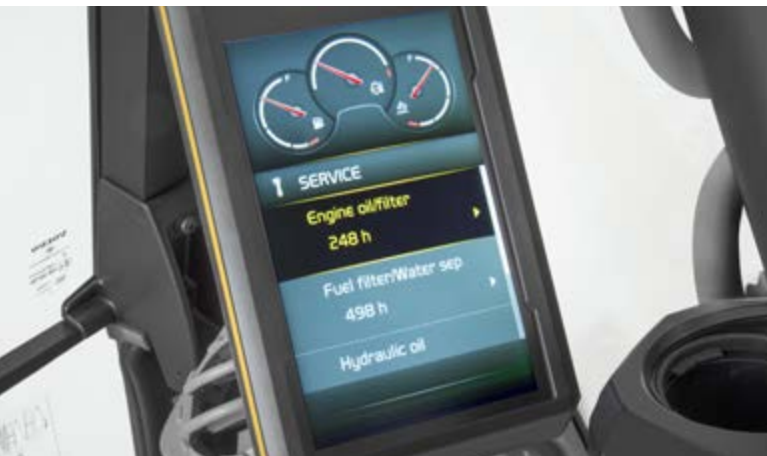
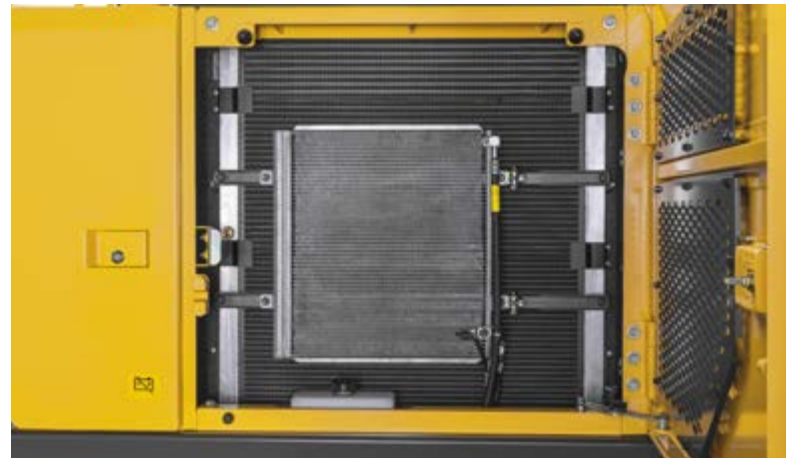
Full size guard rails

Multiple sturdy handrails provide safe and easy access to the superstructure for inspection and maintenance.



Single layer cooling system

The radiator, charged air cooler and hydraulic oil cooler are situated side-by-side on a single layer, to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed from ground level by simply opening the side door.



Service interval alerts

Real-time service alerts are displayed on the color monitor to enable diagnostic checks. Separate service intervals include – the engine oil/filter, fuel filter/water separator, hydraulic oil and hydraulic oil filter. This ensures peace of mind and maximum uptime.



Anti-slip steel plates

Well-positioned punched anti-slip plates provide superior grip and durability. The design facilitates easy cleaning while promoting safety.



Grouped filters

Maintaining a good level of inspection is important for machine longevity and that is why Volvo has grouped filters together, making them easily accessible for regular checks to maximize machine uptime.



Matched attachments

Volvo's durable attachments have been purpose-built to work in perfect harmony with Volvo machines, forming one solid, reliable unit. With functions and properties ideally matched, Volvo attachments are an integrated part of the excavator for which they're intended.

Mix and match for a superior fit.

Maximize your productivity and profitability with Volvo's EC220E crawler excavator and a range of durable attachments. Increase your versatility, access more applications and perform a variety of tasks – all while experiencing faster cycle times and excellent control.

Buckets – GP/HD/XD

Volvo's buckets are the perfect tool for digging and re-handling including all conditions from soft, medium and hard materials. Heavy-duty buckets are intended for productive digging in compact materials. All provide maximum productivity and long life and feature original Volvo wear components.



Breakers

The HB-Series of hydraulic breakers are optimized to the specific weights of Volvo machines and tailored to Volvo quick couplers for swift, safe and simple attachment changes. They are available with a full assortment of tools.



S-type Coupler

The Volvo S-type quick coupler is designed to work with Volvo attachments – delivering ultimate compatibility and unrivalled performance.

Genuine Volvo wear parts

Volvo offers a selection of economic, replaceable wear parts including high quality teeth, segments, side cutters, adapters and shrouds to protect the bucket and ensure long life.



Universal Quick Coupler

The Volvo universal quick coupler offer maximum versatility. It picks up a variety of attachments from various manufacturers and meets new safety regulations.

Improved total cost of ownership.

Boom and arm

To achieve the best performance, select the most suitable boom and arm configuration combination for your requirements.



Ultimate tool carrier

Designed to not only be compatible with a range of attachments, but also to enhance their performance by easily and quickly switching to accommodate any needs.



Optimized hydraulics

Designed to perfectly match the engine power, reduce power loss, and improve controllability and response time.

Diesel Exhaust Fluid (DEF)

Volvo offers a total DEF solution that is quality assured, cost efficient and easily accessible. Contact your Volvo dealer for more information.

Boom float

The pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.

Attachment management system

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab.



Full size guard rails

Multiple sturdy guard rails provide safe and easy access to the super-structure for inspection and maintenance.

Side view camera

Covers the visual blind spot at the side of machine. View is displayed on the color monitor, creating a safer working environment, protecting the operator and personnel on the ground.



HMI

All machine interfaces are ergonomically positioned and designed for optimum control and efficiency.

Bluetooth®

Bluetooth and hands-free functions have been added, allowing the operator to connect to wireless functions for increased comfort and safety.

Short cut key function

For ease of use, functions such as windshield wipers, cameras, or audio mute can all be assigned a short-cut button on the joystick

Volvo engine

Volvo's efficient D6 Tier 4 Final engine gives you more power while consuming less fuel for low emission levels.



Grouped filters

Filters are well grouped and easily accessible from the ground level. This facilitates the speed and ease of servicing.



Built to last

All detail – no matter how small – is overlooked. Silicone caulking is used to prevent rust, waterproof harnesses and connections have been installed – as well as heavy-duty door hinges and bolted-on protection for the framework lights.



Adding value to your business.

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to the positive return of your investment.



Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of

your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.



Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.

Volvo EC220E in detail.

Engine

The latest generation, Volvo engine Tier 4f / Stage IV emissions compliant diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, high pressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance.

Air Filter: 3-stage with pre-cleaner

Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Volvo		D6J	
Max power at	r/s / r/min		30 / 1 800	
Net, ISO 9249/SAE J1349	kW / hp		128 / 172	
Gross, ISO 14396/SAE J1995	kW / hp		129 / 173	
Max torque at	Nm / r/min	lbf ft / r/min	849 / 1 350	626 / 1,350
No. of cylinders			6	
Displacement	l	cu.in	5.7	348
Bore	m	in	98	3.86
Stroke	m	in	126	4.96

Electrical system

Well protected high-capacity electrical system. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard. Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	V		24	
Batteries	V / Ah		2 x 12 / 140	
Alternator	V / Ah		28 / 80	
Start motor	V / kW		24 x 5.5	

Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and antirebound valve are standard.

Max. slew speed	r/min		11.1	
Max. slew torque	kNm	lbf ft	83	61,220

Drive

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. drawbar pull	kN	lbf	183	41,150
Max. travel speed	km/h	mph	3.5 / 5.7	2.2 / 3.5
Gradeability	°		35	

Undercarriage

Robust X-shaped frame with greased and sealed track chains as standard				
Track shoe			2 x 49	
Link pitch	mm	in	190	7.5
Shoe width, triple grouser	mm	in	500 / 600 / 700 / 800 / 900	20 / 24 / 28 / 32 / 36
Shoe width, triple grouser (HD)	mm	in	600	24
Shoe width, double grouser	mm	in	700	28
Bottom rollers			2 x 8	
Top rollers			2 x 2	

Service refill capacities

Fuel tank	l	gal	320	85
Hydraulic system, total	l	gal	290	77
Hydraulic tank	l	gal	140	37
DEF tank	l	gal	27	7
Engine oil	l	gal	25	7
Engine coolant	l	gal	35	9
Swing reduction unit	l	gal	6	2
Travel reduction unit	l	gal	2 x 5.8	2 x 2

Hydraulic system

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with engine to match the engine power, reduce power loss and improve controllability and response time.

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump

Type	2 x variable displacement axial piston pumps			
Maximum flow	l/min	gpm	2 x 207	2 x 55

Pilot pump

Type	Gear pump			
Maximum flow	l/min	gpm	1 x 18	1 x 5

Relief valve setting

Implement	Mpa	psi	34.3 / 36.3	4,980 / 5,260
Travel circuit	Mpa	psi	34.3	4,980
Slew circuit	Mpa	psi	27.9	4,050
Pilot circuit	Mpa	psi	3.9	570

Travel: Variable displacement axial piston motor with mechanical brake

Slew: Fixed displacement axial piston motor with mechanical brake

Hydraulic cylinders

Mono boom			2	
Bore x Stroke	ø x mm	ø x in	125 x 1 235	4.9 x 48.6
2 piece boom			1	
Bore x Stroke	ø x mm	ø x in	160 x 1 070	6.3 x 42.1
Arm			1	
Bore x Stroke	ø x mm	ø x in	135 x 1 540	5.3 x 60.6
Bucket			1	
Bore x Stroke	ø x mm	ø x in	120 x 1 065	4.7 x 41.9
Bucket for LR boom			1	
Bore x Stroke	ø x mm	ø x in	100 x 865	3.9 x 34.1

Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

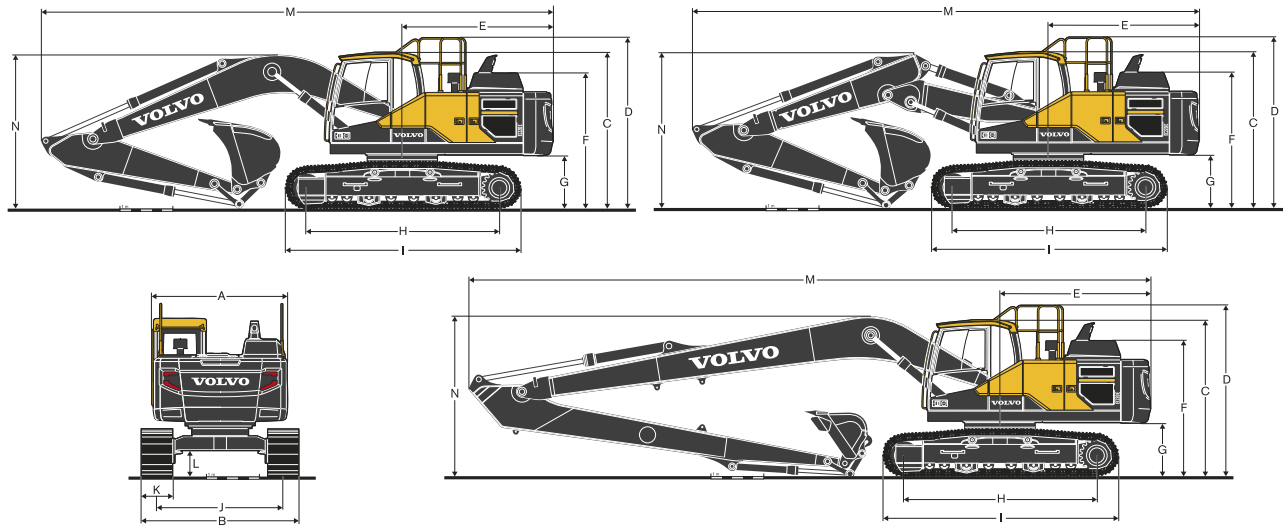
Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to ISO 6396		
LpA (standard)	dB(A)	69
LpA (tropical)	dB(A)	70
External sound level according to ISO 6395, EU Noise Directive (2000/14/EC)		
LwA (standard)	dB(A)	102
LwA (tropical)	dB(A)	103

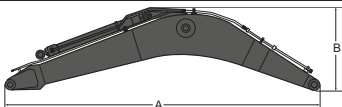
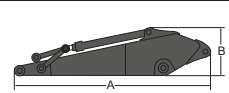
Specifications.

DIMENSIONS



Description	Unit	EC220EL								EC220ELR	
		5.7 (18' 8") mono and 5.57 (18' 3") 2-piece								8.85	29' 0"
Boom	m, ft in									6.25	20' 6"
Arm	m, ft in	2.0	6' 7"	2.5	8' 2"	2.9	9' 6"	3.5	11' 6"		
A. Overall width of upper structure	mm ft in	2 540	8' 4"	2 540	8' 4"	2 540	8' 4"	2 540	8' 4"	2 540	8' 4"
B. Overall width	mm ft in	2 990	9' 10"	2 990	9' 10"	2 990	9' 10"	2 990	9' 10"	3 190	10' 6"
C. Overall height of cab	mm ft in	2 955	9' 8"	2 955	9' 8"	2 955	9' 8"	2 955	9' 8"	2 955	9' 8"
D. Overall height of guard rail	mm ft in	3 270	10' 9"	3 270	10' 9"	3 270	10' 9"	3 270	10' 9"	3 270	10' 9"
E. Tail swing radius	mm ft in	2 850	9' 4"	2 850	9' 4"	2 850	9' 4"	2 850	9' 4"	2 850	9' 4"
F. Overall height of engine hood	mm ft in	2 600	8' 6"	2 600	8' 6"	2 600	8' 6"	2 600	8' 6"	2 600	8' 6"
G. Counterweight clearance *	mm ft in	1 025	3' 4"	1 025	3' 4"	1 025	3' 4"	1 025	3' 4"	1 025	3' 4"
H. Tumbler length	mm ft in	3 660	12' 0"	3 660	12' 0"	3 660	12' 0"	3 660	12' 0"	3 660	12' 0"
I. Track length	mm ft in	4 460	14' 8"	4 460	14' 8"	4 460	14' 8"	4 460	14' 8"	4 460	14' 8"
J. Track gauge	mm ft in	2 390	7' 10"	2 390	7' 10"	2 390	7' 10"	2 390	7' 10"	2 390	7' 10"
K. Shoe width	mm ft in	600	2' 0"	600	2' 0"	600	2' 0"	600	2' 0"	800	2' 7"
L. Min. ground clearance *	mm ft in	460	1' 6"	460	1' 6"	460	1' 6"	460	1' 6"	460	1' 6"
M. Overall length	mm ft in	9 795	32' 2"	9 745	32' 0"	9 690	31' 9"	9 720	31' 11"	12 880	42' 3"
M'. Overall length	mm ft in	9 660	31' 8"	9 610	31' 6"	9 570	31' 5"	9 560	31' 4"	-	-
N. Overall height of boom	mm ft in	3 100	10' 2"	3 080	10' 1"	2 940	9' 8"	3 260	10' 8"	3 055	10' 0"
N'. Overall height of boom	mm ft in	3 065	10' 1"	3 065	10' 1"	2 960	9' 9"	3 310	10' 10"	-	-

DIMENSIONS

Boom					Arm				
									
Description	Unit	mono		mono		2-piece		Long-Reach	
Boom	m	5.7	18' 8"	5.7 HD	18' 8"	5.57	18' 3"	8.85	29' 0"
Length	mm	5 910	19' 5"	5 910	19' 5"	5 780	19' 0"	9 060	29' 9"
Height	mm	1 585	5' 2"	1 585	5' 2"	1 570	5' 2"	1 460	4' 9"
Width	mm	670	2' 2"	670	2' 2"	670	2' 2"	670	2' 2"
Weight	kg	2 006	4,420	2 151	4,740	2 585	5,700	2 510	5,530

Specifications.

MACHINE WEIGHTS AND GROUND PRESSURE

Description	Shoe width		Operating weight		Ground pressure		Overall width		Operating weight		Ground pressure		Overall width	
	mm	ft in	kg	lb	kPa	psi	mm	ft in	kg	lb	kPa	psi	mm	ft in
			EC220EL											
5.7 m (18' 8") boom, 2.9 m (9' 6") arm, 820 kg / 0.92 l (1,810 lb) bucket, 4 200 kg (9,260 lb) counterweight						5.57 m (18' 3") 2-piece, 2.9 m (9' 6") arm, 820 kg / 0.92 l (1,810 lb) bucket, 4 200 kg (9,260 lb) counterweight								
Triple grouser	500	20	21 440	47,280	53.0	7.7	2 890	9' 6"	22 130	48,790	54.9	8.0	2 890	9' 6"
	600	24	21 700	47,850	45.1	6.5	2 990	9' 10"	22 385	49,360	46.1	6.7	2 990	9' 10"
	700	28	22 160	48,860	39.2	5.7	3 090	10' 2"	22 840	50,370	40.2	5.8	3 090	10' 2"
	800	32	22 445	49,490	35.3	5.1	3 190	10' 6"	23 130	51,000	36.3	5.3	3 190	10' 6"
	900	36	22 740	50,140	31.4	4.6	3 290	10' 10"	23 420	51,650	32.4	4.7	3 290	10' 10"
Triple grouser HD	600	24	21 870	48,220	45.1	6.5	2 990	9' 10"	22 550	49,730	47.1	6.8	2 990	9' 10"
Double grouser	700	28	22 425	49,450	40.2	5.8	3 090	10' 2"	23 110	50,960	41.2	6.0	3 090	10' 2"
Single grouser	600	24	21 910	48,310	45.1	6.5	2 990	9' 10"	22 590	49,820	47.1	6.8	2 990	9' 10"
			EC220ELR											
			8.85 m (29' 0") boom, 6.25 m (20' 6") arm, 452 kg / 0.52 l (1,000 lb) bucket, 5 000 kg (11,030 lb) counterweight											
Triple grouser	800	32	23 690	52,250	37.3	5.4	3 190	10' 6"						
	900	36	23 990	52,890	33.3	4.8	3 290	10' 10"						

BUCKET SELECTION GUIDE

Bucket type		Capacity		Cutting width		Weight		Teeth	EC220EL									
									5.7 m (18' 8") Boom				5.57 m (18' 3") 2-piece					
		800 mm (32") shoe, 4 200 kg (9,260 lb) counterweight								2.0 m (6' 7")	2.5 m (8' 2")	2.9 m (9' 6")	3.5 m (11' 6")	2.0 m (6' 7")	2.5 m (8' 2")	2.9 m (9' 6")	3.5 m (11' 6")	
		L	yard³	mm	in	kg	lb		EA									
Direct fit Buckets	General purpose	480	0.63	600	23.40	666	1,468	3.00	C	C	C	C	C	C	C	C	C	
		590	0.77	750	29.25	711	1,568	3.00	C	C	C	C	C	C	C	C	C	
		750	0.98	900	35.10	792	1,746	4.00	C	C	C	C	C	C	C	C	C	
		920	1.20	1 050	40.95	862	1,900	4.00	C	C	C	C	C	C	C	C	C	
		1 090	1.43	1 200	46.80	951	2,096	5.00	C	C	C	C	C	C	C	C	C	
		1 270	1.66	1 350	52.65	1 038	2,289	5.00	C	C	C	C	C	C	C	C	C	
	Heavy duty	480	0.63	600	23.40	738	1,628	3.00	D	D	D	D	D	D	D	D	D	
		480	0.63	600	23.40	675	1,488	3.00	D	D	D	D	D	D	D	D	D	
		750	0.98	900	35.10	872	1,922	4.00	D	D	D	D	D	D	D	D	D	
		750	0.98	900	35.10	808	1,783	4.00	D	D	D	D	D	D	D	D	D	
		920	1.20	1 050	40.95	951	2,098	4.00	D	D	D	D	D	D	D	D	D	
		920	1.20	1 050	40.95	888	1,959	4.00	D	D	D	D	D	D	D	D	D	
		1 090	1.43	1 200	46.80	1 046	2,307	5.00	D	D	D	D	D	D	D	D	D	
		1 090	1.43	1 200	46.80	983	2,168	5.00	D	D	D	D	D	D	D	D	D	

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.

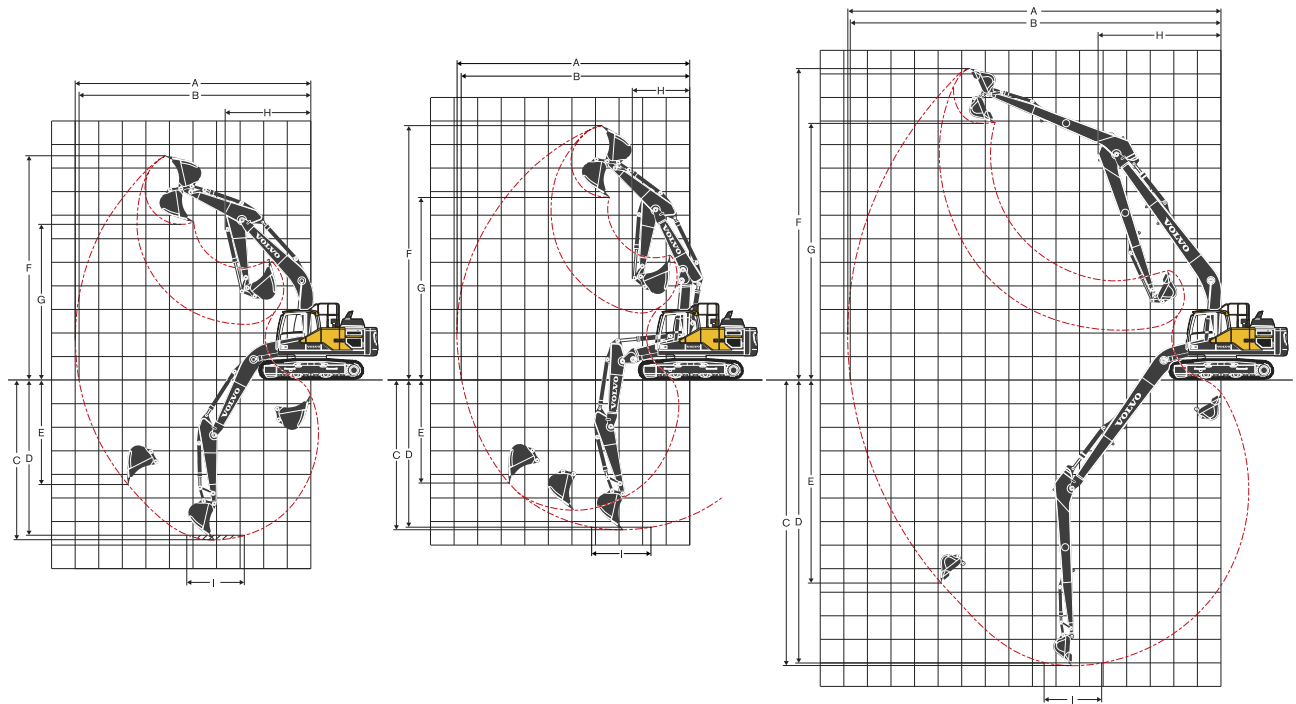
The recommendations are given as a guide only, based on typical operation conditions.

Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density

	kg/m ³	lb/yd ³	
A	1 200 - 1 300	2,000 - 2,200	Coal, Caliche, Shale
B	1 400 - 1 600	2,300 - 2,700	Wet earth and clay, Limestone, Sandstone
C	1 700 - 1 800	2,800 - 3,100	Granite, Wet sand, Well blasted rock
D	> 1 900	> 3,200	Wet mud, Iron ore

WORKING RANGES



Description	Unit	EC220EL																EC220ELR	
Boom	m ft in	5.7 (18' 8") mono								5.57 (18' 3") 2-piece								8.85	29' 0"
Arm	m ft in	2.0	6' 7"	2.5	8' 2"	2.9	9' 6"	3.5	11' 6"	2.0	6' 7"	2.5	8' 2"	2.9	9' 6"	3.5	11' 6"	6.25	20' 6"
A. Max. digging reach	mm ft in	9 090	29' 10"	9 550	31' 4"	9 930	32' 7"	10 390	34' 1"	8 980	29' 6"	9 450	31' 0"	9 840	32' 3"	10 310	33' 10"	15 800	51' 10"
B. Max. digging reach on ground	mm ft in	8 910	29' 3"	9 380	30' 9"	9 770	32' 1"	10 240	33' 7"	8 800	28' 10"	9 280	30' 5"	9 670	31' 9"	10 150	33' 4"	15 700	51' 6"
C. Max. digging depth	mm ft in	5 830	19' 2"	6 330	20' 9"	6 730	22' 1"	7 330	24' 1"	5 410	17' 9"	5 900	19' 4"	6 300	20' 8"	6 850	22' 6"	12 100	39' 8"
D. Max. digging depth (2.44 m / 8' level)	mm ft in	5 560	18' 3"	6 100	20' 0"	6 540	21' 5"	7 130	23' 5"	5 290	17' 4"	5 790	19' 0"	6 200	20' 4"	6 750	22' 2"	12 000	39' 4"
E. Max. vertical wall digging depth	mm ft in	4 880	16' 0"	5 620	18' 5"	6 090	20' 0"	6 470	21' 3"	4 390	14' 5"	4 990	16' 4"	5 410	17' 9"	5 930	19' 5"	11 290	37' 0"
F. Max. cutting height	mm ft in	8 940	29' 4"	9 220	30' 3"	9 460	31' 0"	9 460	31' 0"	10 010	32' 10"	10 380	34' 1"	10 710	35' 2"	10 920	35' 10"	13 300	43' 8"
G. Max. dumping height	mm ft in	6 190	20' 4"	6 430	21' 1"	6 650	21' 10"	6 700	22' 0"	7 100	23' 4"	7 460	24' 6"	7 780	25' 6"	8 010	26' 3"	10 950	35' 11"
H. Min. front swing radius	mm ft in	3 790	12' 5"	3 670	12' 0"	3 640	11' 11"	3 660	12' 0"	2 890	9' 6"	2 740	9' 0"	2 470	8' 1"	2 730	8' 11"	5 200	17' 1"

DIGGING FORCES WITH DIRECT FIT BUCKET

Bucket radius		mm ft in	1 528	5' 0"	1 528	5' 0"	1 528	5' 0"	1 528	5' 0"	1 528	5' 0"	1 528	5' 0"	1 528	5' 0"	1 528	5' 0"	1 250	4' 1"
Breakout force - bucket	Normal SAE J1179	kN lb	146	32,820	125	28,100	125	28,100	125	28,100	146	32,820	125	28,100	125	28,100	125	28,100	68	15,290
	Power boost SAE J1179	kN lb	154	34,620	132	29,670	132	29,670	132	29,670	154	34,620	132	29,670	132	29,670	132	29,670	-	-
	Normal ISO 6015	kN lb	165	37,090	141	31,700	141	31,700	141	31,700	165	37,090	141	31,700	141	31,700	141	31,700	77	17,310
	Power boost ISO 6015	kN lb	174	39,120	149	33,500	149	33,500	149	33,500	174	39,120	149	33,500	149	33,500	149	33,500	-	-
Tearout force - dipper arm	Normal SAE J1179	kN lb	144	32,370	117	26,300	101	22,710	92	20,680	144	32,370	117	26,300	101	22,710	92	20,680	44	9,890
	Power boost SAE J1179	kN lb	153	34,400	124	27,880	107	24,050	97	21,810	153	34,400	124	27,880	107	24,050	97	21,810	-	-
	Normal ISO 6015	kN lb	149	33,500	121	27,200	104	23,380	94	21,130	149	33,500	121	27,200	104	23,380	94	21,130	45	10,120
	Power boost ISO 6015	kN lb	158	35,520	128	28,780	110	24,730	99	22,260	158	35,520	128	28,780	110	24,730	99	22,260	-	-
Rotation angle, bucket		°	166		175		175		175		175		175		175		175		178	

Specifications.

LIFTING CAPACITY EC220EL

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

		Lifting hook related to ground level		1.5 m (5')				3.0 m (10')				4.5 m (15')				6.0 m (20')				
				Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		
		m	in	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	
Boom:	5.7 m (18' 8")	7.5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arm:	2.5 m (8' 2")	6.0	20	-	-	-	-	-	-	-	-	-	-	-	*5.5	*12,110	*5.5	*12,110		
Shoe:	800 mm (32")	4.5	15	-	-	-	-	-	-	-	-	*7.0	*15,100	*7.0	*15,100	*6.0	*13,120	5.6	12,150	
CWT:	4,200 kg	3.0	10	-	-	-	-	-	-	-	-	*9.0	*19,400	8.2	17,660	*6.9	*14,990	5.4	11,640	
	(9,260 lb)	1.5	5	-	-	-	-	-	-	-	-	*10.8	*23,250	7.7	16,610	*7.8	*16,910	5.2	11,140	
		0.0	0	-	-	-	-	-	-	-	-	*11.6	*25,050	7.5	16,120	8.0	17,210	5.0	10,810	
		-1.5	-5	-	-	-	-	*10.8	*24,770	*10.8	*24,770	*11.5	*24,900	7.5	16,050	7.9	17,100	5.0	10,710	
		-3.0	-10	-	-	-	-	*14.8	*32,010	14.7	31,560	*10.6	*22,840	7.6	16,280	*7.8	*16,730	5.0	10,890	
		-4.5	-15	-	-	-	-	*11.4	*24,370	*11.4	*24,370	*8.2	*17,180	7.8	16,940	-	-	-	-	
Boom:	5.7 m (18' 8")	7.5	25	-	-	-	-	-	-	-	-	-	-	-	*5.2	-	*5.2	-	-	
Arm:	2.9 m (9' 6")	6.0	20	-	-	-	-	-	-	-	-	-	-	-	*5.1	*11,170	*5.1	*11,170	-	-
Shoe:	800 mm (32")	4.5	15	-	-	-	-	-	-	-	-	-	-	-	*5.7	*12,330	*5.7	12,310	-	-
CWT:	4,200 kg	3.0	10	-	-	-	-	-	-	-	-	*8.4	*18,180	8.3	17,980	*6.6	*14,300	5.5	11,780	
	(9,260 lb)	1.5	5	-	-	-	-	-	-	-	-	*10.4	*22,370	7.8	16,830	*7.6	*16,400	5.2	11,240	
		0.0	0	-	-	-	-	*5.4	*12,560	*5.4	*12,560	*11.4	*24,740	7.5	16,210	8.0	17,270	5.0	10,860	
		-1.5	-5	*6.3	*14,060	*6.3	*14,060	*10.3	*23,490	*10.3	*23,490	*11.6	*25,120	7.4	16,030	7.9	17,090	5.0	10,700	
		-3.0	-10	*11.4	*25,580	*11.4	*25,580	*15.7	*33,940	14.6	31,310	*10.9	*23,640	7.5	16,180	8.0	17,190	5.0	10,790	
		-4.5	-15	-	-	-	-	*12.7	*27,330	*12.7	*27,330	*9.1	*19,310	7.7	16,680	-	-	-	-	
Boom:	5.7 m (18' 8")	7.5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arm:	3.5 m (11' 6")	6.0	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shoe:	800 mm (32")	4.5	15	-	-	-	-	-	-	-	-	-	-	-	*4.9	*10,720	*4.9	*10,720	-	-
CWT:	4,200 kg	3.0	10	-	-	-	-	-	-	-	-	-	-	-	*5.8	*12,590	5.6	11,980	-	-
	(9,260 lb)	1.5	5	-	-	-	-	-	-	-	-	-	-	-	*6.8	*14,710	5.3	11,380	-	-
		0.0	0	-	-	-	-	-	-	-	-	-	-	-	*7.6	*16,460	5.1	10,900	-	-
		-1.5	-5	-	-	-	-	-	-	-	-	*10.8	*23,490	7.4	15,960	7.9	17,040	4.9	10,650	
		-3.0	-10	-	-	-	-	*15.4	*33,360	14.4	30,840	*10.6	*22,860	7.4	15,980	*7.9	17,020	4.9	10,630	
		-4.5	-15	*16.7	*38,240	*16.7	*38,240	*13.1	*28,240	*13.1	*28,240	*9.3	*20,080	7.6	16,320	*6.9	*14,650	5.0	10,920	
		Lifting hook related to ground level		7.5 m (25')				9.0 m (30')				Max. reach								
				Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		m	ft			
		m	in	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb					
Boom:	5.7 m (18' 8")	7.5	25	-	-	-	-	-	-	-	-	*5.7	*12,540	*5.7	*12,540	5.6	18.0			
Arm:	2.5 m (8' 2")	6.0	20	-	-	-	-	-	-	-	-	*5.6	*12,350	4.7	10,400	6.9	22.3			
Shoe:	800 mm (32")	4.5	15	*5.7	-	4.0	-	-	-	-	-	*5.7	*12,530	3.9	8,630	7.6	24.8			
CWT:	4,200 kg	3.0	10	6.0	12,850	3.9	8,370	-	-	-	-	5.4	11,970	3.5	7,790	8.0	26.2			
	(9,260 lb)	1.5	5	5.9	12,610	3.8	8,140	-	-	-	-	5.3	11,580	3.4	7,490	8.1	26.5			
		0.0	0	5.8	12,450	3.7	7,990	-	-	-	-	5.4	11,890	3.5	7,650	7.9	25.8			
		-1.5	-5	-	-	-	-	-	-	-	-	5.9	13,090	3.8	8,380	7.4	24.1			
		-3.0	-10	-	-	-	-	-	-	-	-	*7.0	*15,470	4.6	10,180	6.5	21.1			
		-4.5	-15	-	-	-	-	-	-	-	-	*7.2	*15,750	6.8	15,530	5.0	16.0			
Boom:	5.7 m (18' 8")	7.5	25	-	-	-	-	-	-	-	-	*4.9	*10,930	*4.9	*10,930	6.2	19.9			
Arm:	2.9 m (9' 6")	6.0	20	-	-	-	-	-	-	-	-	*4.6	*10,120	4.2	9,480	7.3	23.8			
Shoe:	800 mm (32")	4.5	15	*5.4	*11,760	4.0	8,670	-	-	-	-	*4.5	*9,950	3.6	8,020	8.0	26.2			
CWT:	4,200 kg	3.0	10	*5.8	*12,560	3.9	8,450	-	-	-	-	*4.6	*10,220	3.3	7,300	8.4	27.5			
	(9,260 lb)	1.5	5	5.9	12,670	3.8	8,200	-	-	-	-	4.9	10,840	3.2	7,030	8.5	27.8			
		0.0	0	5.8	12,460	3.7	8,000	-	-	-	-	5.0	11,090	3.2	7,150	8.3	27.1			
		-1.5	-5	5.8	12,400	3.7	7,950	-	-	-	-	5.5	12,060	3.5	7,750	7.8	25.5			
		-3.0	-10	-	-	-	-	-	-	-	-	6.5	14,380	4.1	9,180	6.9	22.7			
		-4.5	-15	-	-	-	-	-	-	-	-	*6.9	*15,270	5.7	12,930	5.6	18.0			
Boom:	5.7 m (18' 8")	7.5	25	-	-	-	-	-	-	-	-	*4.9	*10,920	4.5	10,160	7.1	23.0			
Arm:	3.5 m (11' 6")	6.0	20	*4.7	*10,360	4.2	8,940	-	-	-	-	*4.9	*10,800	3.6	8,060	8.1	26.5			
Shoe:	800 mm (32")	4.5	15	*4.8	*10,550	4.1	8,820	-	-	-	-	4.8	10,670	3.2	7,000	8.8	28.6			
CWT:	4,200 kg	3.0	10	*5.2	*11,410	4.0	8,560	4.6	-	3.0	-	4.5	9,900	2.9	6,450	9.1	29.8			
	(9,260 lb)	1.5	5	*5.7	*12,500	3.8	8,250	4.5	9,680	2.9	6,270	4.4	9,640	2.8	6,250	9.2	30.1			
		0.0	0	5.8	12,460	3.7	8,000	-	-	-	-	4.5	9,820	2.9	6,340	9.0	29.5			
		-1.5	-5	5.7	12,310	3.6	7,860	-	-	-	-	4.8	10,520	3.1	6,770	8.6	28.0			
		-3.0	-10	5.7	12,390	3.7	7,930	-	-	-	-	5.5	12,100	3.5	7,760	7.8	25.5			
		-4.5	-15	-	-	-	-	-	-	-	-	*5.9	*12,990	4.5	10,010	6.6	21.5			

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY EC220ELR

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		6.0m (20')				7.5m (25')				9.0m (30')				10.5m (35')			
			Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC	
	m	in	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb
Boom: 8.85 m (29' 0")	12.0	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arm: 6.25 m (20' 6")	10.5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	*3,530	-	*3,530
Shoe: 800 mm (32")	9.0	30	-	-	-	-	-	-	-	-	-	-	-	-	-	*4,750	-	*4,750
CWT: 5 000 kg	7.5	25	-	-	-	-	-	-	-	-	-	-	-	-	*2.2	*4,910	*2.2	*4,910
(11 030 lb)	6.0	20	-	-	-	-	-	-	-	-	-	-	-	-	*2.4	*5,240	*2.4	*5,240
	4.5	15	-	-	-	-	-	-	-	-	*2.8	*6,140	*2.8	*6,140	*2.6	*5,700	2.5	5,450
	3.0	10	*4.6	*9,900	*4.6	*9,900	*3.7	*8,060	*3.7	*8,060	*3.2	*6,960	3.1	6,620	*2.9	*6,250	2.4	5,140
	1.5	5	*5.6	*12,040	5.0	10,860	*4.3	*9,370	3.7	8,000	*3.6	*7,820	2.9	6,140	*3.1	*6,830	2.2	4,830
	0	0	*6.4	*13,750	4.6	9,870	*4.9	*10,520	3.4	7,360	*4.0	*8,600	2.7	5,710	*3.4	*7,370	2.1	4,540
	-1.5	-5	*6.9	*14,860	4.3	9,270	*5.3	*11,380	3.2	6,910	4.1	8,920	2.5	5,390	3.3	7,170	2.0	4,310
	-3.0	-10	*7.1	*15,400	4.2	8,970	5.2	11,220	3.1	6,630	4.0	8,690	2.4	5,170	3.3	7,010	1.9	4,160
	-4.5	-15	*7.1	*15,410	4.1	8,890	5.2	11,100	3.0	6,520	4.0	8,580	2.4	5,070	3.2	6,930	1.9	4,090
	-6.0	-20	*6.9	*14,980	4.2	8,980	5.2	11,130	3.0	6,550	4.0	8,600	2.4	5,080	3.2	6,960	1.9	4,110
	-7.5	-25	*6.5	*13,970	4.3	9,230	*5.2	*11,130	3.1	6,710	4.0	8,750	2.4	5,220	3.3	7,130	2.0	4,270
	-9.0	-30	*5.7	*12,200	4.5	9,650	*4.6	*9,710	3.2	7,040	*3.6	*7,640	2.5	5,540	-	-	-	-
	-10.5	-35	*4.4	*9,090	*4.4	*9,090	*3.4	-	*3.4	-	-	-	-	-	-	-	-	-
	Lifting hook related to ground level		12.0m (40')				13.5m (45')				Max. reach							
			Along UC		Across UC		Along UC		Across UC		Along UC		Across UC					
	m	in	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m	ft		
	12.0	40	-	-	-	-	-	-	-	-	*0.8	*1,950	*0.9	*1,950	10.3	33.1		
	10.5	35	-	-	-	-	-	-	-	-	*0.8	*1,780	*0.8	*1,780	11.6	37.7		
	9.0	30	*1.5	*2,610	*1.5	*2,610	-	-	-	-	*0.8	*1,680	*0.8	*1,680	12.6	41.1		
	7.5	25	*2.1	*4,190	*2.1	*4,190	-	-	-	-	*0.7	*1,630	*0.7	*1,630	13.4	43.7		
	6.0	20	*2.3	*5,120	2.1	4,420	*1.3	*2,230	*1.3	*2,230	*0.7	*1,620	*0.7	*1,620	13.9	45.6		
	4.5	15	*2.5	*5,410	2.0	4,260	*1.8	*3,440	1.6	3,330	*0.8	*1,650	*0.8	*1,650	14.3	46.9		
	3.0	10	*2.6	*5,770	1.9	4,060	*2.2	*4,230	1.5	3,220	*0.8	*1,710	*0.8	*1,710	14.5	47.6		
	1.5	5	*2.8	*6,160	1.8	3,850	2.4	*4,720	1.4	3,090	*0.8	*1,810	*0.8	*1,810	14.6	47.8		
	0	0	2.82	6,070	1.7	3,660	2.3	*4,830	1.4	2,980	*0.9	*1,950	*0.9	*1,950	14.4	47.4		
	-1.5	-5	2.74	5,910	1.6	3,510	2.3	*4,250	1.4	2,890	*1.0	*2,150	*1.0	*2,150	14.2	46.5		
	-3.0	-10	2.69	5,800	1.6	3,410	*1.7	*2,460	1.3	*2,460	*1.1	*2,430	*1.1	*2,430	13.7	45.0		
	-4.5	-15	2.67	5,780	1.6	3,380	-	-	-	-	*1.3	*2,850	*1.3	*2,850	13.1	42.9		
	-6.0	-20	*2.4	*3,580	1.6	3,460	-	-	-	-	*1.6	*3,490	1.6	3,460	12.3	40.0		
	-7.5	-25	-	-	-	-	-	-	-	-	*2.0	*4,590	1.8	4,100	11.2	36.3		
	-9.0	-30	-	-	-	-	-	-	-	-	*3.0	*6,990	2.3	5,280	9.7	31.2		
	-10.5	-35	-	-	-	-	-	-	-	-	*3.3	*7,140	*3.3	*7,140	7.6	24.2		

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Equipment.

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets Tier 4f EU (Stage IV) requirements
 Air filter with indicator
 Air intake heater
 Cyclone pre-cleaner
 Electric engine shut-off
 Fuel filter and water separator
 Alternator, 80 A
 High capacity cooling system (50° C, 122° F)

Electric/Electronic control system

Contronics
 Advanced mode control system
 Self-diagnostic system
 Satellite Caretrack and 6 yr-Caretrack subscription
 Machine status indication
 Engine speed sensing power control
 Automatic idling system
 One-touch power boost
 Safety stop/start function
 Adjustable LCD color monitor
 Master electrical disconnect switch
 Engine restart prevention circuit
 High-capacity halogen or LED lights:
 Frame-mounted 2
 Boom-mounted 1
 Travel alarm
 Batteries, 2 x 12 V / 140 Ah
 Start motor, 24 V / 5.5 kW

Hydraulic system

Boom float function without HRV
 Automatic sensing hydraulic system
 Summation system
 Arm priority
 Swing priority
 Pilot control pattern change
 ECO mode fuel saving technology
 Boom, arm and bucket regeneration valves
 Swing anti-rebound valves
 Boom and arm holding valves
 Multi-stage filtering system
 Boom cylinders (x2)
 Cylinder cushioning
 Cylinder contamination seals
 Auxiliary hydraulic valve
 Automatic two-speed travel motors
 Hydraulic oil, longlife oil 46

Frame

Access way with handrail
 Tool storage area
 Punched metal anti-slip plates
 Undercover (heavy-duty)
 Full height counterweight:
 4 200 kg (9,260 lb) - Long Crawler (L)
 5 000 kg (11,030 lb) - Long Reach (LR)

Cab and interior

ROPS (ISO12117-2) certified cab
 Silicon oil and rubber mounts with spring
 Opening top hatch
 Control lock out lever
 Travel pedals and hand levers
 Adjustable operator seat with heater and joystick control console
 Control joysticks with 4 switches each
 Straight travel pedal
 Heater & air-conditioner, automatic
 Flexible antenna
 Radio with MP3 and USB Jack with bluetooth
 Cab, all-weather sound suppressed, includes:
 Cup holders
 Door locks
 Tinted glass
 Floor mat
 Horn
 Large storage area
 Pull-up type front window
 Removable lower windshield
 Seat belt
 Safety glass
 Sun screens, front, roof, rear
 Windshield wiper with intermittent feature
 Rear view camera
 Master key

Undercarriage

Undercover
 Hydraulic track adjusters
 Greased and sealed track link
 Track Guard
 800 mm (32") shoe with triple grousers

Digging equipment

Boom: monoblock 5.7 m (18' 8"), Long Reach 8.85 m (29' 0")
 Arm: 2.9 m (9' 6"), Long Reach 6.25 m (20' 6")
 Manual centralized lubrication
 Linkage without lifting eye

OPTIONAL EQUIPMENT

Engine

Block heater: 120 V
 Oil bath pre-cleaner
 Diesel coolant heater, 5 kW
 Water separator with heater
 Auto engine shutdown
 Fuel filler pump: 50 l/min (13.2 gpm), with automatic shut-off
 Standard cooling system (40° C, 104° F)

Electric

Extra work lights (Halogen or LED):
 Boom-mounted 1
 Cab-mounted 3
 Counterweight-mounted 1
 Anti-theft system
 Rotating warning beacon

OPTIONAL EQUIPMENT

Hydraulic system

Boom hose rupture valve (HRV) with overload warning device

Arm hose rupture valve (HRV)

Boom float function with HRV

Hydraulic piping:

Work tool management system (up to 20 programmable memories)

Hammer & shear, 1 and 2 pump flow

Slope & rotator (60 lpm/16 gpm)

Extra for slope & rotator

Grapple

Oil leak (drain) line

Quick coupler piping

Breaker & shear pressure pre-setting

Additional return filter

Volvo hydraulic quick coupler S1, S1 without hook

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32, 68

Cab and interior

Fabric seat without heater

Fabric seat with heater and air suspension

Control joysticks with semi-long

Control joysticks with 3 switch & 1 proportional

Falling object guard (FOG)

Frame-mounted

Cab-mounted

Cab and interior

Cab-mounted falling object protective structure (FOPS)

Side view camera

Rain shield

Smoker kit (ashtray and lighter)

Safety net for front window

Lower wiper with intermittent control

Cleaning air gun

Anti-vandalism kit

Undercarriage

Full track guard

500 mm (20") / 600 mm (24") / 600 mm HD (24") /

700 mm (28") / 900 mm (36") shoe with triple grousers

700 mm (28") shoe with double grousers

600 mm (24") shoe with single grouser

Digging equipment

Boom: 5.7 m (18' 8") monoblock, heavy duty

Boom: 5.57 m (18' 3") 2-piece boom

Arm: 2.0 m (6' 7"), 2.5 m (8' 2"), 2.9 m (9' 6"), 3.5 m (11' 6")

Linkage with lifting eye

Service

Tool kit, daily maintenance

Tool kit, full scale

Selection of Volvo optional equipment

Auto engine shutdown



Two-piece boom



Diesel coolant heater



LED lights



Fuel fill pump



Cleaning air gun



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



Volvo Construction Equipment
www.volvoce.com

Ref. No. VOE2210009366
Printed in USA, 2/2015
Volvo, Shippensburg
Copyright © 2015 Volvo

English-22
EXC